## (11) **EP 4 494 961 A3**

(12)

### **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3: **14.05.2025 Bulletin 2025/20** 

(43) Date of publication A2: 22.01.2025 Bulletin 2025/04

(21) Application number: 24211355.3

(22) Date of filing: 28.09.2022

(51) International Patent Classification (IPC): **B60W 30/16** (2020.01) **B60W 30/18** (2012.01)

(52) Cooperative Patent Classification (CPC): **B60W 30/16; B60W 30/18109;** B60W 2300/36;

B60W 2420/905; B60W 2520/16; B60W 2530/10;

B60W 2540/10; B60W 2540/12; B60W 2540/14;

B60W 2540/16; B60W 2552/40; B60W 2720/106

(84) Designated Contracting States:

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

(30) Priority: 28.09.2021 JP 2021157668

(62) Document number(s) of the earlier application(s) in accordance with Art. 76 EPC:

22798184.2 / 4 410 622

(71) Applicant: Robert Bosch GmbH 70469 Stuttgart (DE)

(72) Inventor: IGARI, Yoshihide Yokohama-shi, Kanagawa, 224-8501 (JP)

(74) Representative: Isarpatent
Patent- und Rechtsanwälte
Barth Hassa Peckmann & Partner mbB
Friedrichstraße 31
80801 München (DE)

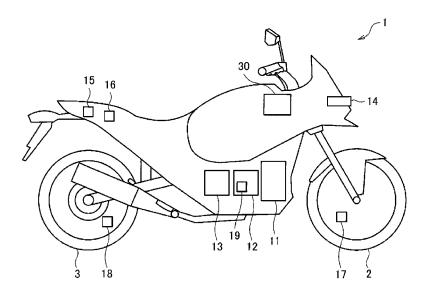
#### (54) CONTROLLER AND CONTROL METHOD

(57) The present invention obtains a controller and a control method capable of improving safety of a lean vehicle.

According to a controller (30) and a control method of the present invention, an execution section of the controller (30) executes a first operation. The first operation is an operation causing the lean vehicle (1) to execute a cruise control based on a positional relationship information that is information about a positional relationship

between the lean vehicle (1) and a preceding vehicle preceding the lean vehicle (1). When a specified operation is performed by a rider of the lean vehicle (1) while the first operation is enabled by the rider, the execution section executes a second operation, the second operation is an operation that automatically stops the lean vehicle (1) regardless of the positional relationship information.

[FIG. 1]



EP 4 494 961 A3



## **EUROPEAN SEARCH REPORT**

**Application Number** 

EP 24 21 1355

		DOCUMENTS CONSID					
10	Category	Citation of document with ir of relevant pass	ndication, where appropriate, ages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)		
10	A	ET AL) 3 January 20	- [0044]; figure 3 *	1-13	INV. B60W30/16 B60W30/18		
15	A	& CO OHG [DE]) 18 J	.1 (CONTINENTAL TEVES AG fune 2014 (2014-06-18) - [0022], [0026],	1,13			
20	A	[DE]) 1 April 2021	, [0011] - [0015] *	1,13			
25	A	US 2020/017085 A1 ( 16 January 2020 (20 * paragraphs [0004] [0038], [0064] - [	20-01-16) - [0009], [0035] -	1,13			
30	A	WO 2021/099931 A1 (27 May 2021 (2021-0	BOSCH GMBH ROBERT [DE]) 5-27)	1,13	TECHNICAL FIELDS SEARCHED (IPC)		
35	Е	* see EP4063216 * -& EP 4 063 216 A1 [DE]) 28 September	(BOSCH GMBH ROBERT		B60W B60T		
		[0074] *					
40							
45							
50 1		The present search report has	•		_		
201)	Place of search  Munich		Date of completion of the search  24 March 2025	Examiner Plenk, Rupert			
2 (P04	CATEGORY OF CITED DOCUMENTS		T: theory or principle underly		<u>-</u>		
95 FORM 1503 03.82 (P04C01)	X: particularly relevant if taken alone Y: particularly relevant if combined with anoth document of the same category A: technological background		E : earlier patent doc after the filing date her D : document cited in L : document cited fo	E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons			
EPO FOF	O : non	-written disclosure rmediate document		& : member of the same patent family, corresponding			

## EP 4 494 961 A3

# ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 24 21 1355

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

24-03-2025

		atent document d in search report		Publication date		Patent family member(s)		Publication date
	US	2019001941	A1	03-01-2019	CN	109204257	A	15-01-201
					EP	3421308	A1	02-01-201
					US	2019001941	A1	03-01-201
	DE	102013226004	A1	18-06-2014	NON	NE		
	DE	102019215101	A1	01-04-2021	CN	114430721	A	03-05-202
					DE	102019215101	A1	01-04-202
					EP	4037941	A1	10-08-202
					JP	7387882	в2	28-11-202
					JP	2022549928	A	29-11-202
					US	2022281426		08-09-202
					WO	2021063576		08-04-202
	US	2020017085	A1	16-01-2020	EP	3588465	 A1	01-01-202
					JP	6850863		31-03-202
					JP	2018134991		30-08-201
						WO2018154398		07-11-201
					TW	201840445		16-11-201
					US	2020017085		16-01-202
					WO	2018154398		30-08-201
	WO	2021099931	A1	27-05-2021	CN	114667248		24-06-202
					EP	4063216		28-09-202
					JP	2021082076		27-05-202
						WO2021099931		27-05-202
					US	2023026851		26-01-202
					WO	2021099931		27-05-202
	EP	4063216	 А1	28-09-2022	CN	114667248	 A	24-06-202
					EP	4063216		28-09-202
					JP	2021082076		27-05-202
						WO2021099931		27-05-202
					US	2023026851		26-01-202
					WO	2021099931		27-05-202
g								
EPO FORM P0459								
⊼ I								